REMARKS

In response to the Notice of Non-Compliant Amendment dated June 21, 2006, Applicant hereby submits a set of annotated sheets showing the changes made and a set of replacement sheets. The drawings are identified in the top margin as "Replacement Sheets" and Annotated Sheets." Applicant believes that the new drawing comply with the Rule 121(d).

Respectfully submitted,

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Date: July 21, 2006

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail on July 21, 2006 in an envelope addressed to:

Mail Stop Non-Fee Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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AMENDMENTS TO THE DRAWINGS:

The attached sheets of drawings include changes to Figures 1, 2, 3, 4, 5, 6, and 7.

The sheets which includes Figures 1, 2, 3, 4, 5, 6, and 7 replace the original sheets including those figures.

Attachment: Replacement Sheets

Annotated Sheets Showing Changes

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ANNOTATED SHEETS SHOWING CHANGES

```
<xsd:element name="purchaseOrder" type="POType1"/>
<xsd:element name="comment" type="xsd:string"/>

<xsd:complexType name="POType1">
  <xsd:sequence>
    <xsd:element name="shipTo" type="USAddress"/>
    <xsd:element name="billTo" type="USAddress" minOccurs="0"/>
    <xsd:element ref="comment" minOccurs="0"/>
    <xsd:element name="items" type="Items"/>
  </xsd:sequence>
</xsd:complexType>
```

(a)

```
<xsd:element name="purchaseOrder" type="POType2"/>
<xsd:element name="comment" type="xsd:string"/>

<xsd:complexType name="POType2">
  <xsd:sequence>
    <xsd:element name="shipTo" type="USAddress"/>
    <xsd:element name="billTo" type="USAddress"/>
    <xsd:element ref="comment" minOccurs="0"/>
    <xsd:element name="items" type="Items"/>
  </xsd:sequence>
</xsd:complexType>
```

(b)

~~Figure 1. Definition of purchaseOrder element in (a) Source Schema (b) Target Schema. The figure shows a fragment of each schema.~~

FIG. 1

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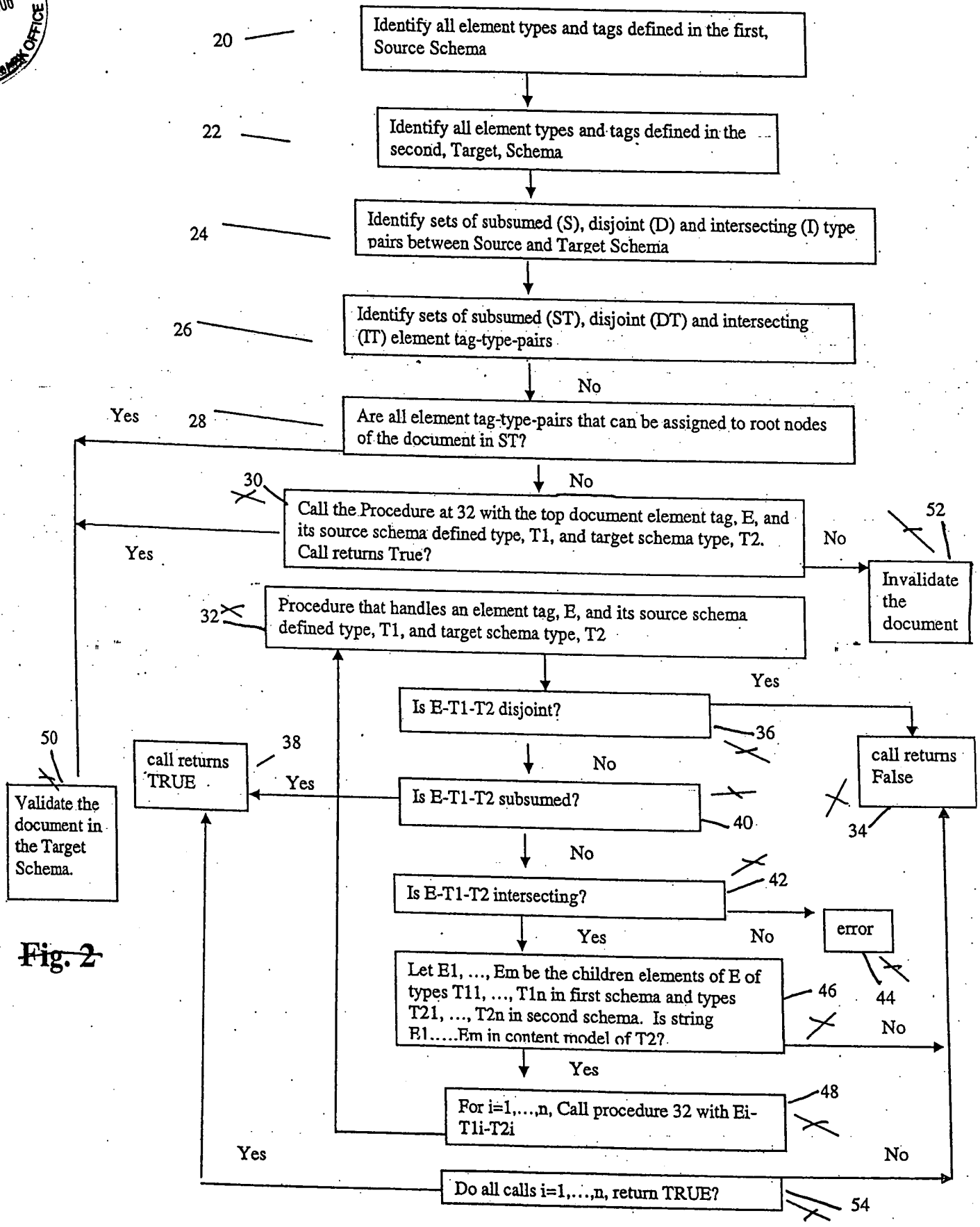
ANNOTATED SHEETS SHOWING CHANGES



~~Fig. 2~~

FIG. 2

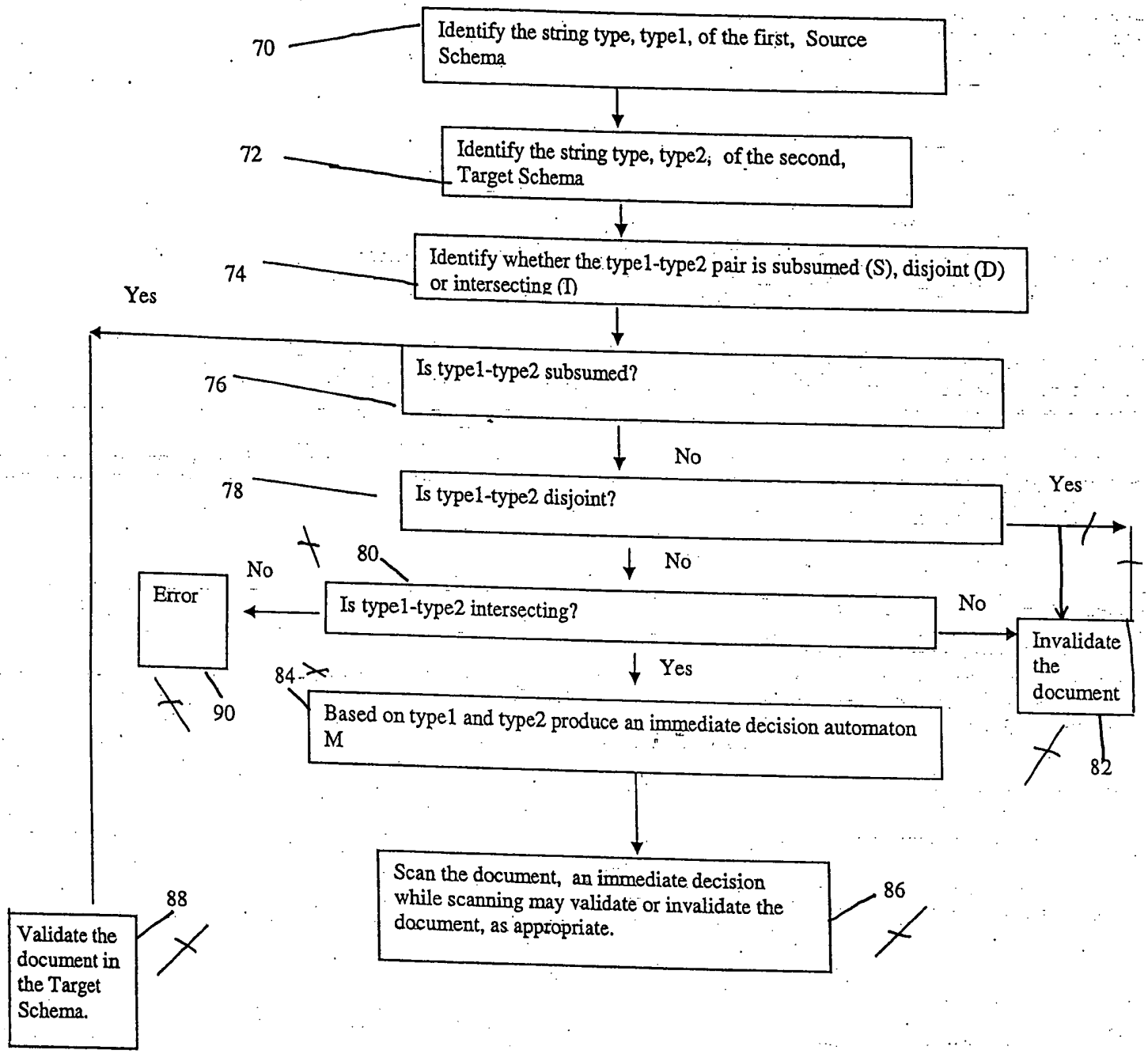
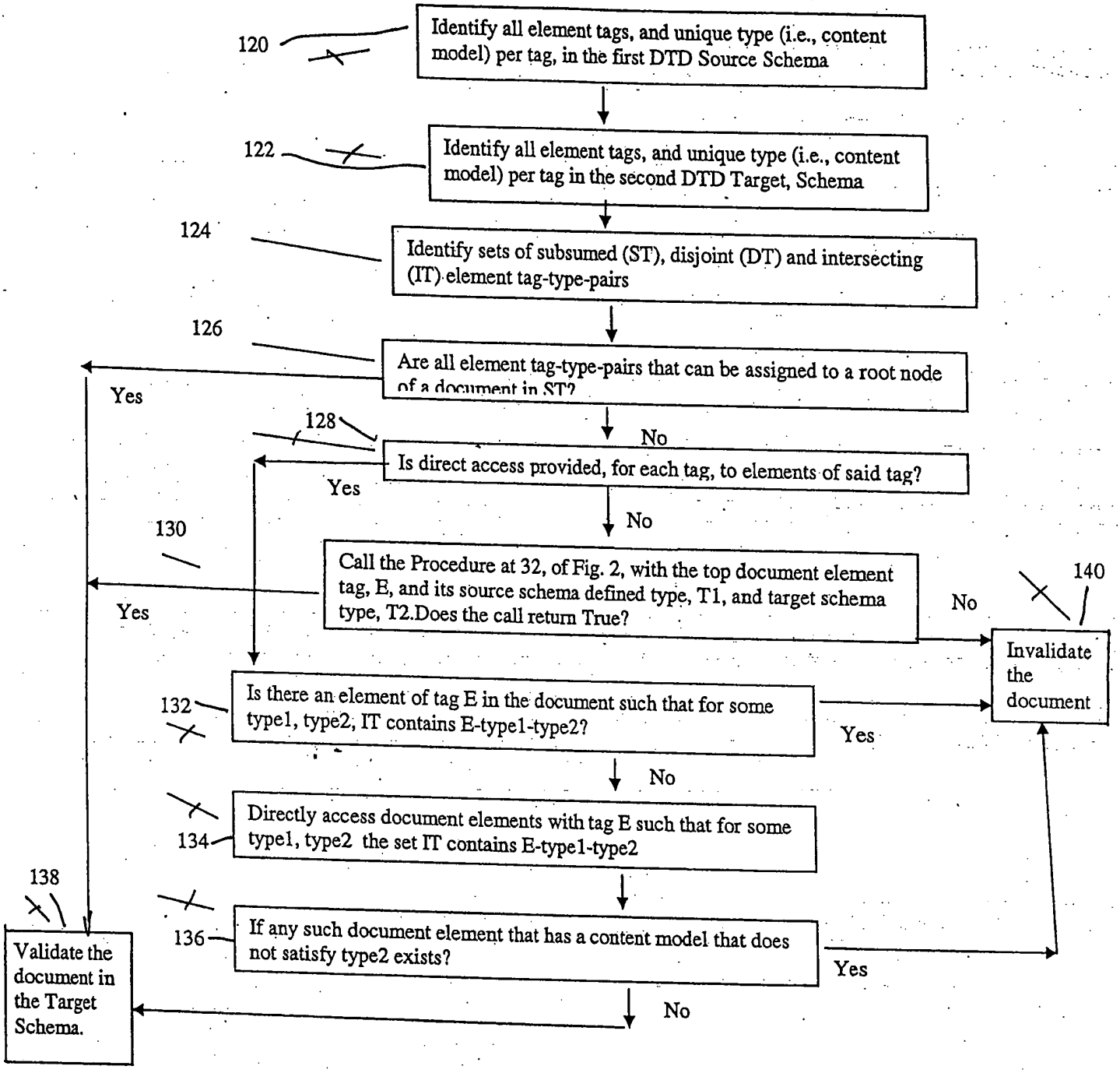

70
Identify the string type, type1, of the first, Source Schema
72
Identify the string type, type2, of the second, Target Schema
74
Identify whether the type1-type2 pair is subsumed (S), disjoint (D) or intersecting (I)
Yes
76
Is type1-type2 subsumed?
No
78
Is type1-type2 disjoint?
Yes
80
No
No
Error
Is type1-type2 intersecting?
No
Invalidate the document
84
Yes
90
Based on type1 and type2 produce an immediate decision automaton M
82
Scan the document, an immediate decision while scanning may validate or invalidate the document, as appropriate.
86
88
Validate the document in the Target Schema.

Fig. 3


120
Identify all element tags, and unique type (i.e., content model) per tag, in the first DTD Source Schema
122
Identify all element tags, and unique type (i.e., content model) per tag in the second DTD Target, Schema
124
Identify sets of subsumed (ST), disjoint (DT) and intersecting (IT) element tag-type-pairs
126
Are all element tag-type-pairs that can be assigned to a root node of a document in ST?
Yes
No
128
Is direct access provided, for each tag, to elements of said tag?
Yes
No
130
Call the Procedure at 32, of Fig. 2, with the top document element tag, E, and its source schema defined type, T1, and target schema type, T2.Does the call return True?
Yes
No
140
Invalidate the document
132
Is there an element of tag E in the document such that for some type1, type2, IT contains E-type1-type2?
Yes
No
134
Directly access document elements with tag E such that for some type1, type2 the set IT contains E-type1-type2
136
If any such document element that has a content model that does not satisfy type2 exists?
Yes
No
138
Validate the document in the Target Schema.

~~Fig. 4~~

Fig. 4

ANNOTATED SHEETS SHOWING CHANGES

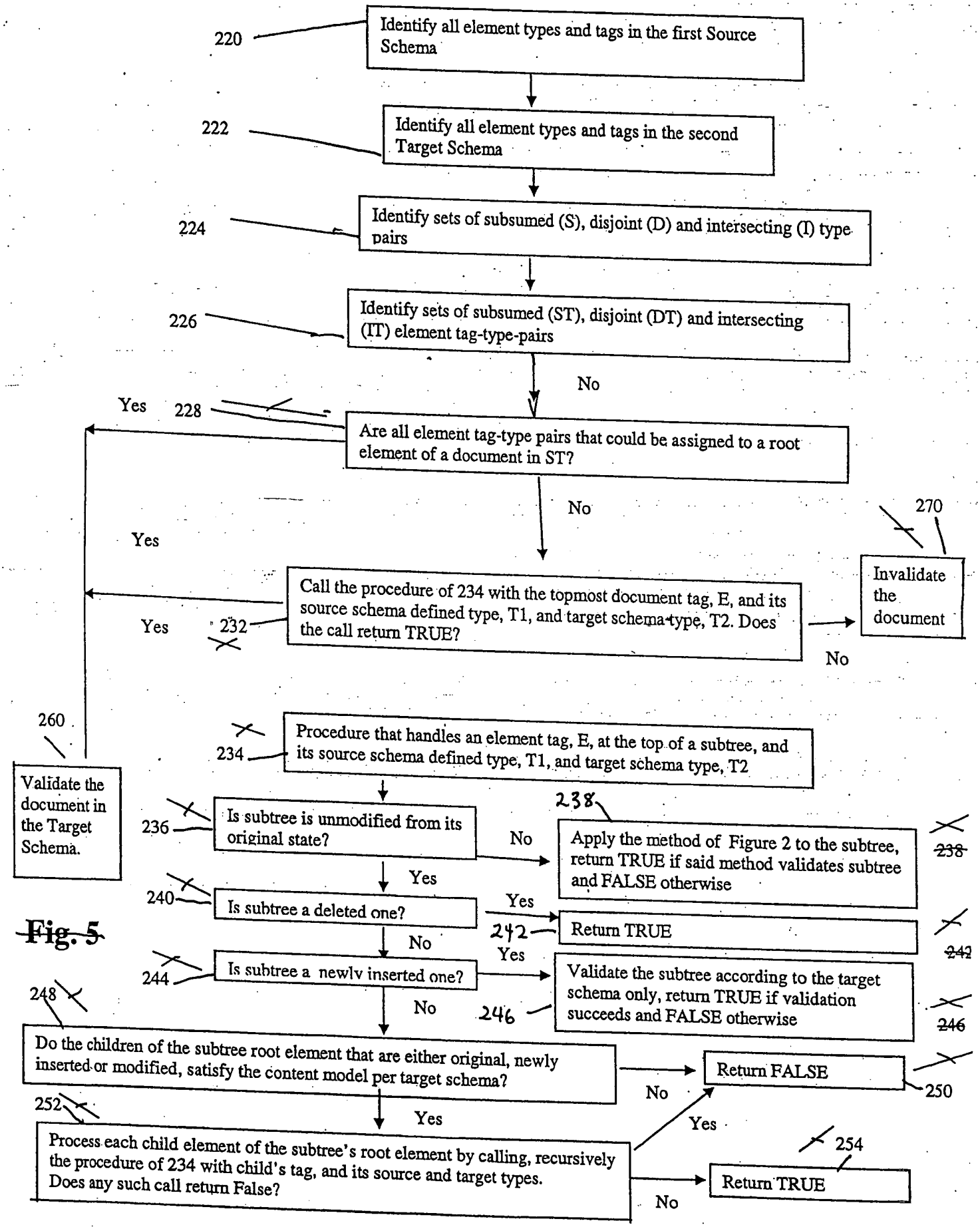


Fig. 5

FIG. 5

ANNOTATED SHEETS SHOWING CHANGES

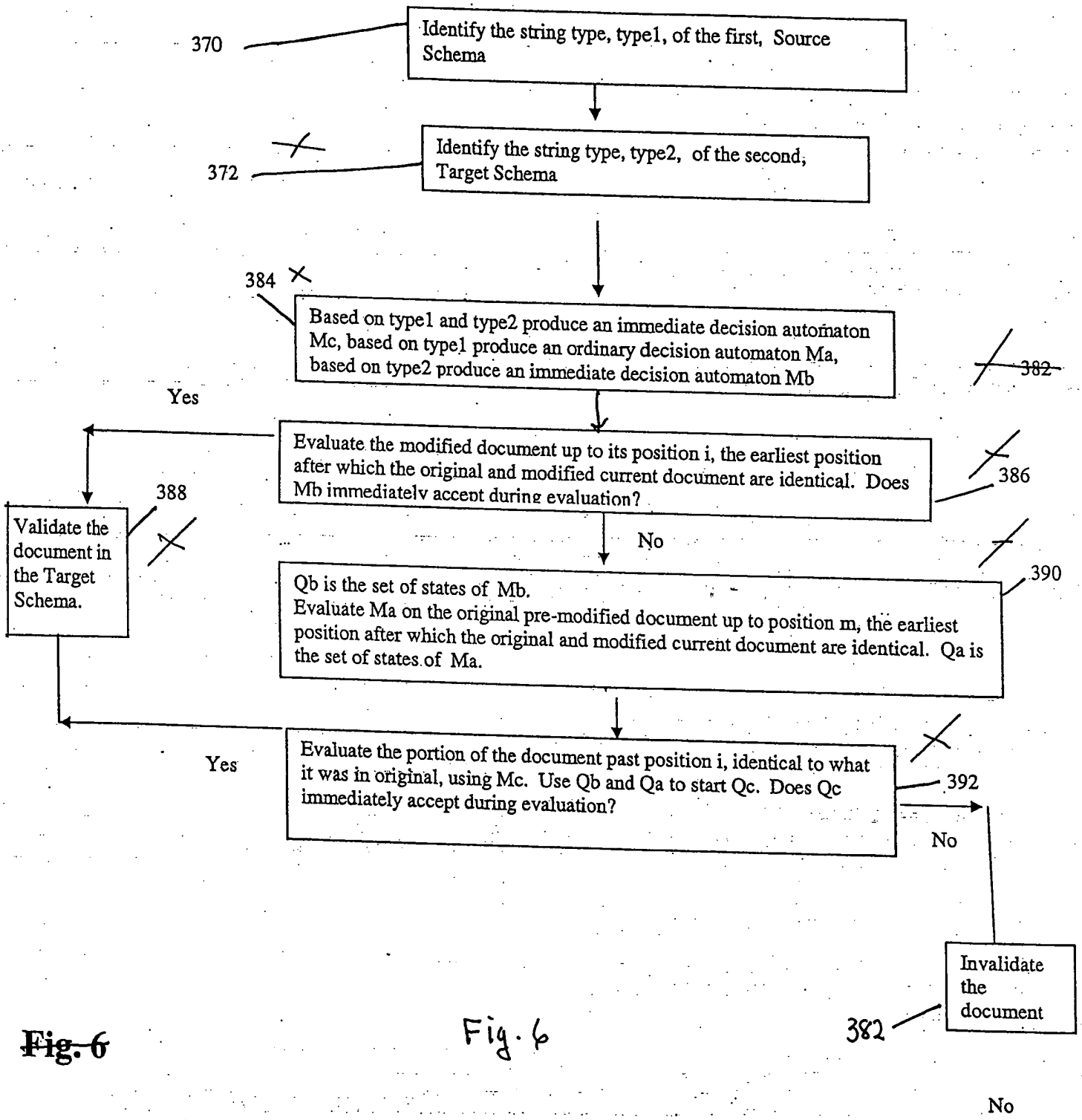


Fig. 6

Fig. 6

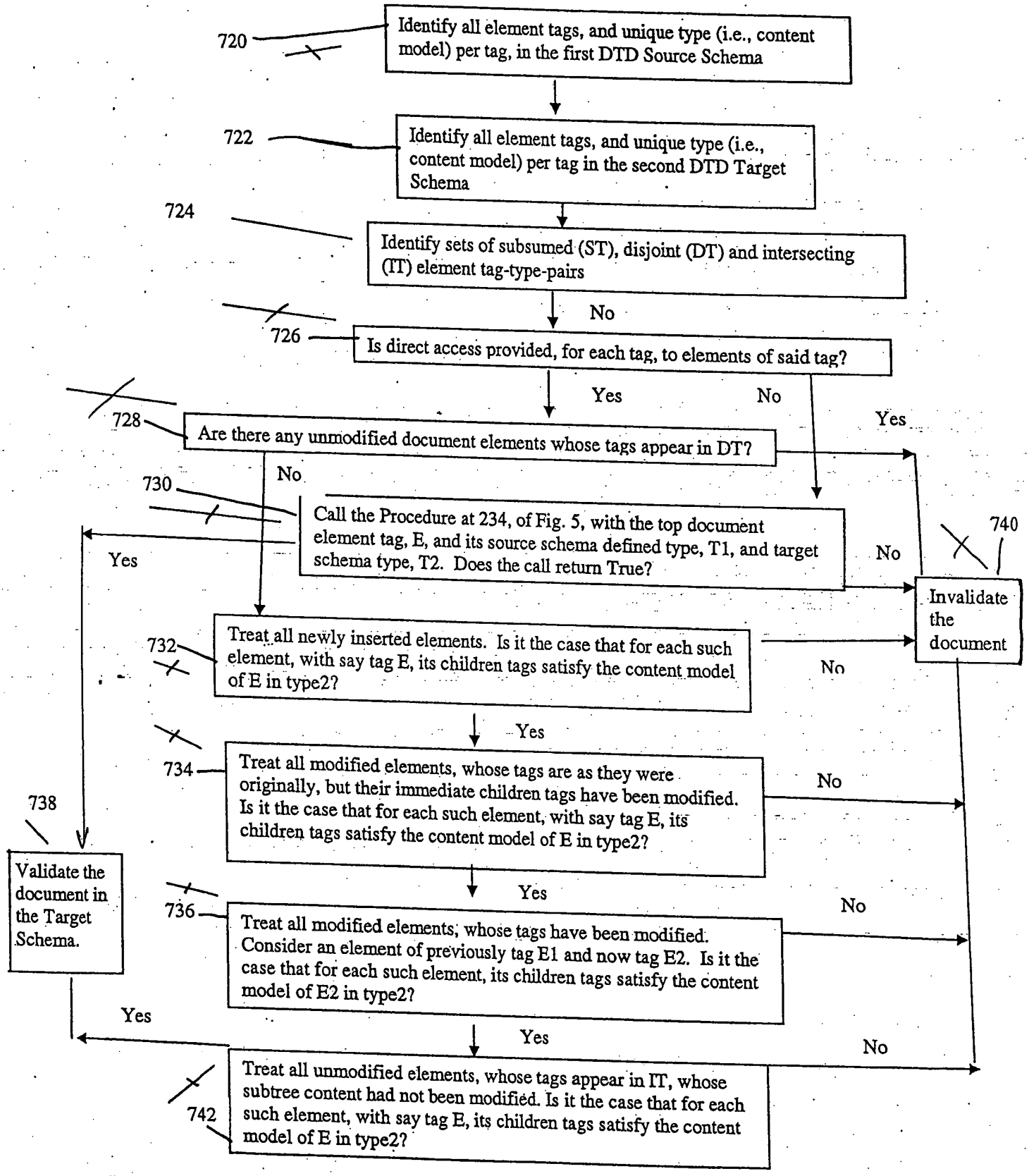

720
Identify all element tags, and unique type (i.e., content model) per tag, in the first DTD Source Schema
722
Identify all element tags, and unique type (i.e., content model) per tag in the second DTD Target Schema
724
Identify sets of subsumed (ST), disjoint (DT) and intersecting (IT) element tag-type-pairs
No
726
Is direct access provided, for each tag, to elements of said tag?
Yes
No
728
Are there any unmodified document elements whose tags appear in DT?
Yes
No
730
Call the Procedure at 234, of Fig. 5, with the top document element tag, E, and its source schema defined type, T1, and target schema type, T2. Does the call return True?
Yes
No
740
Invalidate the document
732
Treat all newly inserted elements. Is it the case that for each such element, with say tag E, its children tags satisfy the content model of E in type2?
No
Yes
734
Treat all modified elements, whose tags are as they were originally, but their immediate children tags have been modified. Is it the case that for each such element, with say tag E, its children tags satisfy the content model of E in type2?
No
Yes
738
Validate the document in the Target Schema.
736
Treat all modified elements, whose tags have been modified. Consider an element of previously tag E1 and now tag E2. Is it the case that for each such element, its children tags satisfy the content model of E2 in type2?
No
Yes
Yes
742
Treat all unmodified elements, whose tags appear in IT, whose subtree content had not been modified. Is it the case that for each such element, with say tag E, its children tags satisfy the content model of E in type2?
No

Fig. 7